```
                                           20                          40
CTT TCT ATT TGG TTA ACC ATG GCT CAT AAC TTT CGT CAT CCT TTC TTC
Leu Ser Ile Trp Leu Thr Met Ala His Asn Phe Arg His Pro Phe Phe>

                        60                          80
CTT TTC CAA CTT TTA CTC ATT ACT GTC TCA ATG CTA ATG ATC GGT AGC CAC
Leu Phe Gln Leu Leu Leu Ile Thr Val Ser Met Leu Met Ile Gly Ser His>

  100                          120                         140
   *
ACC GTC TCG TCA GCG GCT CGA CAT TTA TTC CAC ACA CAA ACA TCA
Thr Val Ser Ser Ala Ala Arg His Leu Phe His Thr Gln Thr Ser>

                        160                         180
TCA GAG CTG CCA CAA TTG GCT TCA AAA TAC GAA AAG CAC GAA GAG TCT
Ser Glu Leu Pro Gln Leu Ala Ser Lys Tyr Glu Lys His Glu Glu Ser>

  200                         220                          240
   *
GAA TAC CAG CCA AAA TAT CAT GAA GAG TAC CCA AAA CAT GAG AAG
Glu Tyr Gln Pro Lys Tyr His Glu Glu Tyr Pro Lys His Glu Lys>

                        260                          280
CCT GAA ATG TAC AAG GAG AAA CAA AAA CCC TGC AAA CAT CAT GAA
Pro Glu Met Tyr Lys Glu Glu Lys Gln Lys Pro Cys Lys His His Glu>

  300                          320
   *
GAG TAC CAC GAG TCA CGC GAA GAG CAC GAA GAG TAC GAT AAA
Glu Tyr His Glu Ser Arg Glu Lys Glu His Glu Glu Tyr Asp Lys>
```

FIGURE 1A

08/984,099

                                    360   380
340
GAA AAA CCC GAT TTC CCC AAA TGG GAA AAG CCT AAA GAG CAC GAG AAA
Glu Lys Pro Asp Phe Pro Lys Trp Glu Lys Pro Lys Glu His Glu Lys>

       400   420
        *
CAC GAA GTC GAA ATA CCC GAG TAC AAG GAC AAA CAA GAT
His Glu Val Glu Ile Pro Glu Tyr Lys Asp Lys Gln Asp>

       440   460   480
GAG AAT AAG AAA CAT AAA GAT GAA GAG TGC CAG GAG TCA CAC GAA TCG
Glu Asn Lys Lys His Lys Asp Glu Glu Cys Gln Glu Ser His Glu Ser>

       500   520
        *
AAA GAG CAC GAA GAG TAC GAG AAA GAA AAA CCC GAT TTC CCC AAA TGG
Lys Glu His Glu Glu Tyr Glu Lys Glu Lys Pro Asp Phe Pro Lys Trp>

       540   560
GAA AAG CCT AAA GGG CAC GAG AAA CAT AAA GCC GAA TAT CCG AAA ATA
Glu Lys Pro Lys Gly His Glu Lys His Lys Ala Glu Tyr Pro Lys Ile>

       580   600   620
                      *
CCT GAG TGC AAG GAA AAA CTA GAT GAG GAT AAG GAA CAT AAA CAT GAG
Pro Glu Cys Lys Glu Lys Leu Asp Glu Asp Lys Glu His Lys His Glu>

       640   660
TTC CCA AAG CAT GAA GAA AAA GAA GAG AAG GAG AAA CCT GAG AAA GGC ATA
Phe Pro Lys His Glu Glu Lys Glu Glu Lys Glu Lys Pro Glu Lys Gly Ile>

FIGURE 1B

08/984,099

```
                    680                    700                   720
                                            *
GTA CCC TGA GTG GGT TAA AAT GCC TGA ATG GCC GAA GTC CAT GTT TAC
Val Pro *** Val Gly *** Asn Ala *** Met Ala Glu Val His Val Tyr>

                          740                   760
TCA GTC TGG CTC GAG CAC TAA GCC TTA AGC CAT ATG ACA CTG GTG CAT
Ser Val Trp Leu Glu His *** Ala Leu Ser His Met Thr Leu Val His>

             780                   800
                                    *
GTG CCA TCA TGC AGT AAT TTC ATG GGA TAT TGT AAT TAT ATT GTT
Val Pro Ser Ser Cys Ser Asn Phe Met Gly Tyr Cys Asn Tyr Ile Val>

820                   840                   860
AAT AAA AAA GAT GGT GAG TGG GAA ATG TGT GTG TGC ATT CAT CCA TGA
Asn Lys Lys Asp Gly Glu Trp Glu Met Cys Val Cys Ile His Pro ***>

             880                   900
                                    *
GCA ATG CTG AAT CTC TTT GCA TGC ATA GAG ATT CTG AAT GGT TAT AGT
Ala Met Leu Asn Leu Phe Ala Cys Ile Glu Ile Leu Asn Gly Tyr Ser>

       920                   940                   960
TTA TGT TAT ATC GTT TGT TCT AGT GAA ATT AAT TTT GAA TGT TGT ATG
Leu Cys Tyr Ile Val Cys Ser Ser Glu Ile Asn Phe Glu Cys Cys Met>

TAA TGT T
*** Cys Xxx>
```

FIGURE 1C

08/984,099

```
                    20         40         60
ACTAAAGGGA ACAAAAGCTG GAGCTCCACC GCGGTGGCGG CCGCTCTAGA ACTAGTGGAT
                    80        100*        120
CCCCCGTGGA CTAAACAAAA CATGGGAAGA TTTGCTGTAA AAAAATAAAA GAAGCTTACT
                   140        160        180
CAATAACACT TTGTGAATTG TATACAAAAG ACTCAATGAA AAACAATAAC TCAATACACT
                   200*       220        240
TTTTTTCACT GATTTACATC CTTTATATAG GCTGAAACTA CAACAACTTT AGCTAAAAAA
                   260        280        300*
ATAGGATAAC CTAATAGCAA AATCACAATC AGATATTAAA CCATGATTTT AGCTAACCAT
                   320        340        360
TTAACAACTT TATTGAAACT AATTTGAATA TTTCATCTGC TGATATGCCC AAGATTTTAG
                   380        400*       420
GCCACTAACC GATTTGGTGG TGAACTTTAA CATGTCATGC ATTTGTAACT GTTTGAAACA
                   440        460        480
AGTTTTTTGC ATTATTTTAC TATATGAACT GTTTGATTAG GTTGAGTTAC ACACTGAGCT
                   500*       520        540
TGTAAGCTCA CTCAAATTTT TCTAATTTCT AAGGTGATCA GCAAACTTAG GACCGGGGCGG
                   560        580        600*
CGTACGAGAG CTCGGATTGA TTTTCTAGTT AATAAATAAG ACGATTTATG TTTTTAAACT
```

Figure 2A

08/984,099
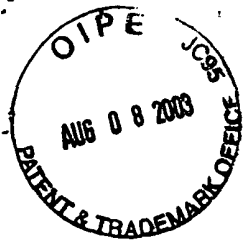
```
                    620                 640                 660
ATTATGGACT   TTTTGGACTA   TGTAACTGTT   TGGGACTTTA   TTTTTGTTTT   TTATTTGCTT

                    680                 700*                720
TTTTTGGATT   TAGTAATTAT   TATTTTTAAA   CTGCAAAATT   ATATGTTTTT   ACAAACTAAG

                    740                 760                 780
TCACAGTTTT   CAAAATTCCA   TAACTTAGAA   TTTTTCGCTG   CAAAATAAAG   TAATCATTTA

                    800*                820                 840
AGTGTTTTTT   CTGTAATAAA   ATAAATAAAT   AATTTTAACG   AGTATTTCC   TAAAAATTGG

                    860                 880                 900*
AAATTGATTT   ACCAAAATTA   GTATGTCAAA   ACACATGTTT   ATATGTTACA   GGGCGATATC

                    920                 940                 960
GTCTAGGCAA   ATAACATCTA   GGCGGGGTTT   GGAGTGTTAC   AGGGCGAGTG   GGCTCATTTT

                    980                1000*               1020
GAGTAAGTAT   AGTTAGGGCC   GAGTTTTAGA   TTGCATATTC   AAGGTCAAAG   ATTTTGTAAA

                   1040                1060                1080
CTTCGATGAA   TGATATGTAT   GATTGTCCGA   TTAACGAAAT   ATGTTTTTTT   CTTTTGTGTG

                   1100*               1120                1140
TGTTTTATCT   CGTGTGATAA   GTATATAGTA   TGTTTTATTC   CAATTCTTAT   GGCATGTGAC

                   1160                1180                1200*
ATTGTGGCTA   TTCTAATTAA   ATTGATTTGT   TATTATTGAA   ATCTGATGCA   TCTGTTCTAC
```

Figur 2B

08/984 099

```
                        1220                    1240                    1260
AAAGCATGGA  ATCTCATGCC  TACTGCTTTC  TGTTAAAGAT  ACGATTGCAA  GTTTAACATG

                        1280                    1300                    1320
                                                 *
CTTACTATTT  TGATTTTGTC  CTTGCATGCT  ATGTCACATT  ACATGGGGTT  GGGATGATAT

                        1340                    1360                    1380
GGTAAGGAGG  AAGTTTTGAC  AGTTTAATGA  TTTGCACTAT  CTGGTTGGTTT AACCACATAT

                        1400                    1420                    1440
                         *
TTGTTATGGC  ATCTTGACTG  CGGTTATGGT  GGCTCGACCG  CCCATATCTG  TTCTGGAAAT

                        1460                    1480                    1500
                                                                         *
TTATCTGTGA  CTCTGGTGGC  ATTGTCTACA  ATTATTTGTT  GGTGTGTTTT  GGATGGACGA

                        1520                    1540                    1560
GTCGTGGGGA  ACTCTATTTG  GTGTGTTGCG  GAGTTGGGTA  GGAAATTTTC  GAAAAAAATT

                        1580                    1600                    1620
                                                 *
TGCATTGTGT  TTTTCTGAAA  AATATATTGCAT TAACATAAATC ATGCATTCTC AATTTTGGTC

                        1640                    1660                    1680
AATTGAACGT  TATAAAATTC  TCTATGATAT  CCTGATCTGT  TTATTACATT  ATATGTGTTT

                        1700                    1720                    1740
                         *
ATGCTTGAGT  TAAGTCAAAC  ATTGAGATTC  ATAGCTCACC  CAATTATTTA  ATCATTTCAG

                        1760                    1780                    1800
                                                                         *
GCAATCTGCA  GACTTAGGAT  TGGATGGCGT  TCAGGAGCTT  GGATTGGTTT  TCTCACATCA

                        1820                    1840                    1860
TATTTTATTA  AATAATTATT  AATTAAAAATT TATGGACTTT TGGACTGTCT GACTAATTTT
```

Figure 2C

```
                20                    40                    60
       ACTAAAGGGA ACAAAAGCTG GAGCTCCACC GCGGTGGCGG CCGCTCTAGG ATCCCCCGTG

                80                   100*                  120
       GACTAAACAA AACATGGGAA GATTGCTGT  AAAAAAATAA AAGAAGCTTA CTCAATAACA

               140                   160                   180
       CTTTGTGAAT TGTATACAAA AGACTCAATG AAAAACAATA ACTCAATACA CTTTTTTCA

               200*                  220                   240
       CTGATTTACA TCCTTTATAT AGGCTGAAAC TACAACAACT TTAGCTAAAA AAATAGGATA

               260                   280                   300*
       ACCTAATAGC AAAATCACAA TCAGATATTA AACCATGATT TTAGCTAACC ATTAACAAC

               320                   340                   360
       TTTATTGAAA CTAATTTGAA TATTTCATCT GCTGATATGC CCAAGATTT  AGGCCACTAA

               380                   400*                  420
       CCGATTGGGT GGTGAACTTT AACATGTCAT GCATTGTAA  CTGTTTGAAA CAAGTTTTT

               440                   460                   480
       GCATTATTTT ACTATATGAA CTGTTTGATT AGGTTGAGTT ACACACTGAG CTTGTAAGCT

               500*                  520                   540
       CACTCAAATT TTTCTAATTT CTAAGGTGAT CAGCAAACTT AGGACCGGGC GGCGTACGAG
```

Figure 3A

08/994 099

```
                560          580          600
                                            *
AGCTCGGATT  GATTTTCTAG  TTAATAAATA  AGACGATTTA  TGTTTTTAAA  CTATTATGGA

                620          640          660
CTTTTTGGAC  TATGTAACTG  TTTGGGACTT  TATTTTTGTT  TTTTATTTGC  TTTTTTTGGA

                680          700          720
                             *
TTTAGTAATT  ATTATTTTTA  AACTGCAAAA  TTATATGTTT  TTACAAACTA  AGTCACAGTT

                740          760          780
TTCAAAATTC  CATAACTTAG  AATTTTTCGC  TGCAAAATAA  AGTAATCATT  TAAGTGTTTT

                800          820          840
                 *
TTCTGTAATA  AAATAAAATAA ATAATTTTAA  CGAGTATTTT  CCTAAAAATT  GGAAATTGAT

                860          880          900
                                            *
TTACCAAAAT  TAGTATGTCA  AAACACACGT  TTATATGTTA  CAGGGCGATA  TCGTCTAGGC

                920          940          960
AAATAACATC  TAGGCGGGGT  TTGGAGTGTT  ACAGGGCGAG  TGGGCTCATT  TTGAGTAAGT

                980         1000         1020
                             *
ATAGTTAGGG  CCGAGTTTTA  GATTGCATAT  TCAAGGTCAA  AGATTTGTA   AACTTCGATG

               1040         1060         1080
AATGATATGT  ATGATTGTCC  GATTAACGAA  ATATGTTTTT  TTCTTTTGTG  TGTGTTTTAT
```

Figur 3B

08/954099

```
         1100*          1120            1140
CTCGTGTGAT AAGTATATAG TATGTTTTAT TCCAATTCTT ATGGCATGTG ACATTGTGGC
         1160            1180            1200*
TATTCTAATT AAATTGATTT GTTATTATTG AAATCTGATG CATCTGTTCT ACAAAGCATG
         1220            1240            1260
GAATCCCATG CCTACTGCTT TCTGTTAAAG ATACGATTGC AAGTTTAACA TGCTTACTAT
         1280          1300*            1320
TTTGATTTTG TCCTTGCATG CTATGTCACA TTACATGGGG TTGGGATGAT ATGGTAAGGA
         1340            1360            1380
GGAAGTTTTG ACAGTTTAAT GATTTGCACT ATCTGGTGGT TTAACCACAT ATTTGTTATG
         1400*          1420            1440
GCATCTTGAC TGCGGTTATG GTGGCTCGAC CGCCCATATC TGTTCTGGAA ATTTATCTGT
         1460            1480          1500*
GACTCTGGTG GCATTGTCTA CAATTATTTG TTGGTGTGTT TTGGATGGAC GAGTCGTGGG
         1520            1540            1560
GAACTCTATT TGGTGTGTTG CGGAGTTGGG TAGGAAATTT TCGAAAAAAA TTTGCATTGT
         1580          1600*            1620
GTTTTTCTGA AAAATATTGC ATTAACATAA TCATGCATTC TCAATTTTGG TCAATTGAAC
```

Figure 3C

08/964,099

```
                    1640                        1660                        1680
GTTATAAAAT  TCTCTATGAT  ATCCTGATCT  GTTATTACA  TTATATGTGT  TTATGCTTGA

          1700                        1720                        1740
           *
GTTAAGTCAA  ACATTGAGAT  TCATAGCTCA  CCCAATTATT  TAATCATTTC  AGGCAATCTG

                    1760                        1780                        1800
                                                                            *
CAGACTTAGG  ATTGGATGGC  GTTCAGGAGC  TTGGATTGGT  TTTCTCACAT  CATATTTTAT

          1820                        1840                        1860
TAAATAATTA  TTAATTAAAA  TTTATGGACT  TTTGGACTGT  CTGACTAATT  TTCAGAATT

                    1880                        1900                        1920
                                                 *
TATTTTGGTT  TTGGGTTTTG  TTGAATTTTT  TAGATAATTA  TTTTAAATAT  TCTGCATAAT

          1940                        1960                        1980
TTTTCTGTTA  TTTGAAAAGG  ATGTTCGAAT  TTTTTTTCAA  AATTGAAACG  TTTAAGAATT

                    2000                        2020                        2040
                     *
TTTACTACTG  CAAATTCAGA  ATAAGTGAAT  TTGTTTTTTA  GAAAGATTAA  ATAAGTTAGT

          2060                        2080                        2100
                                                                            *
ATTACGATTT  TTAGTTTGAT  TTGGTGGAAA  GTAATGTATG  TTTTTGAACA  TAATTATTTG

          2120                        2140                        2160
ACAATAATTA  AGTTTTCTAG  GGAATAAACG  GAAATATCTT  CTTCTTTTTT  GTAAAATTAC
```

Figure 3D

08/904,099

```
                         2180                2200                2220
                                              *
TAATGCAAGA ACAAACAACG TTTTGGGGAG CAAATAATCT AGCTTTAAGT AGTCAGTGTA
             2240                2260                2280
ACTCTCAAAA TCTGGTCATA ACTTCTAGGC TGAGTTTGCT GTGCTACAGT AGTAAGTCTA
             2300                2320                2340
              *
TAGAAACTTA CCTGACAAAA CGACATGACG TCAGGGTCGA ATCTACAACT TTTCCTTTTT
             2360                2380                2400
                                                      *
CTTCAATTAA CATATGGTTG ATTCAAGTTC CGATCTATAA TAATTTATTA CGATTTATCA
             2420                2440                2460
ATTTCAATTA CCTTATATCA TCCTATTATA AATATAAGTC AGTTCAATTC AGTTTTCGAA
             2480                2500                2520
                                  *
AGTTCCCAAA AATTTTGAAT TTTATTAAAT TTATTCCCTA AAACCGAAAT AGTTATATCT
             2540                2560                2580
TTCAAATTTA AGTTTCATTT TTCAATCCGA TTTCAATTTC ATCCTTTTAT AACTCTCTAT
             2600                2620                2640
              *
TATCTATAAT TACATAAATT TCAAATTAAT TTTGAAATAT TTACACTTTA GTCCCTAAGT
             2660                2680                2700
                                                      *
TCAAAACTAT AAATTTTCAC TTTAGAAATT AATCATTTTT CACATCTAAG CATCAAATTT
```

Figure 3E

08/984,099

```
                2720                2740                2760
AACCAAATGA CACAAAATTC ATGATTAGTT AGATCAAGCT TTTGAGTCTT CAAAACATAA
                2780                2800                2820
                                     *
AAATTACAAA AAAAAAACAA ACTTAAAATC ATTTATCAAT TTGAACAACA AAGCTTGGCC
                2840                2860                2880
GAATGCTAAG AGCTTAAAAA TGGCTTCTTT TGTTTCTTTT TGTTGCAAAC GGTGGAGAGA
                2900                2920                2940
                 *                   *
AGAGGGAAAT GAAGATTGAC CATATTTTTT TATTATGTTT TAACATATAA TATTAATAAT
                2960                2980                3000
                                                         *
TTAATCATAA TTATACTTTG GTGAATGTGA CAGTGGGGAG ATACGTAAAG TATTTTAACA
                3020                3040                3060
TTATACTTTT TGCAAGCAGT TGGCTGGTCT ACCCAAGAGT GATCAAAGTT TGAGCTGCCT
                3080                3100                3120
                                     *
TCAATGAGCC AATTTTTGCC CATAATGGAT AAAGGCAATT TGTTTAGTTC AACTGCTCAC
                3140                3160                3180
AGAATAATGT TAAAATGAAA TTAAAATAAG GTGGCCTGGT CACACACACA AAAAAAAACT
                3200                3220                3240
                 *
AATGTTGGTT GGTTGAATTT TATATTACGG AATGTAATAT TATATTTTAA AATAAAATTA
```

Figure 3F

```
           3260              3280              3300
                                                 *
TGTTATTTAG ATTCTTAATA TTTTGGAGCA TTCCATACTA TAATTTCGTA ACATAATATT

           3320              3340              3360

AAAATATAGT AATATAAAGT GTAATTAACT TTAAATTACA AGCATAATAT TAAATTTTGA

           3380              3400              3420
              *                 *
ATCAATTAAT TTTTATTTCT ATTATTTTAA TTAATTTAGT CTATTTTTTC AAAATAAAAT

           3440              3460              3480

TTAAATCTAA ATAAAAATAA TTTTTCCTTA ATGTTGAAAC AACTCATGTT ATACTTCAAA

           3500              3520              3540
              *
ATTATAAGTA TTATATTTAC CTTGATGATT TATTTATTAG TATATTAATT CTGATTATAA

           3560              3580              3600
                                                 *
TTATGGTGGG ATACAATCGC TTTCCACTAA ATATTTTAAC TATGATTTAT AAATTTATTT

           3620              3640              3660

CAACATCGTA TATTTACTTA TTAATACATA ATTTATCATA ATTTTATGGA AATTGAGACC

           3680              3700              3720
              *                 *
AAGAAACATT AAGAGAACAA ATTCTATAAC AAAGACAATT TAGAAAAAAA TGTACTTTTA

           3740              3760              3780

GGTAATTTTA AGTACTCTTA ACCAAACACA AAAATTCAAA TCAAATGAAC TAAATAAGAT
```

Figur 3G

08/984 099

```
                    3800         3820                         3840
                     *
AATATAACAT ACGGAACATC TTACTTGTAA TCTTACATTC CCATAATTTT ATTATGAAAA

        3860                3880                              3900
                                                               *
ATAATCTTAT ATTACTCGAA CTAAATGTTG TCACAAATTA TTATCTAAAT AAAGAAAAAC

                    3920         3940                         3960
ACTTAATTTT TATAACATTT TTTCATATAT TTGAAAGATT ATATTTGTA TATTTACGTA

        3980                4000                              4020
                             *
AAAATATTTG ACATAGATTG AGCACCTTCT TAACATAATC CCACCATAAG TCAAGTATGT

                    4040         4060                         4080
AGATGAGAAA TTGGTACAAA CAACGTGGGG CCAAATCCCA CCAAACCATC TCTCATTCTC

        4100
         *
TCCTATAAAA GGCTTGCTAC ACATAGACAA CAATCCCACAC A CA AAT ACA CGT TCT
                                                    <Ile Cys Thr Arg

4140                     4160                     4180
TTT CTT TCT ATT TGA TTA ACC ATG G CTCATAGCAT TCGTCACCCT TTCTTCCTTT
<Lys Lys Arg Asn Ser *** Gly His

        4200                4220                              4240
         *
TCCAACTTTT ACTCATAAGT GTCTCACTAG TGACCGGTAG CCACACTGTT TCGGCAGCGG

        4260                4280                              4300
                                                               *
CTCGACGTTT ATTCGGAGACA CAAGCAACCT CCCACAATTG GCTTCAAAAT
```

Figure 3H

08/984,099

```
          4320                    4340                    4360
ACGAAAAGCA CGAAGAGTCT GAATACGAAA AGCCAGAATA CAAACAGCCA AAGTATCACG

          4380                    4400
AAGAGTACTC AAAACTTGAG AAGCCTGAAA TGCAAAAGGA GGAAAAACAA AAACCCTGCA

          4440                    4460                    4480
AACAGCATGA AGAGTACCAC GAGTCACACG AATCAAAGGA GCAAAAAGAG TACGAGAAAG

          4500                    4520                    4540
AAAATCTCGA CGGGCCCGAA GATCTTCGCT AGCCGTCGAC GCCCGGGGGA ATTCGTCGAG

          4560                    4580                    4600
CCTTGAATCA TATGACGCTG GTGCATGTGC CATCATCATG CAGTAATTTC ATGGTATATC

          4620                    4640                    4660
GTAATATATA GTTAATAAAA AAGATGGTGA TTGGGAAATG TGTGTGTGCA TTCCTCCATG

          4680                    4700                    4720
CACTAAATGG T GAATCTCTTT GCATACACATAG AAATTCTAAA TGGTTATAGT TTATGTTATA

          4740                    4760                    4780
GTGTATGTTG TAGTGAAAKT AATTTTAAAT GTTGTATCTA ATGTTAACAT CACTTGGCTT

          4800                    4820                    4840
GATTTATGTT ATGTTATGTA TTTTACTTTA ATGATATTGC ATGTATTGTT AATTTAACAT

          4860                    4880                    4900
TGCTTGATCA TTATACTCTT CTACTATTAA TTATAAATGG CACTGTTTTG TTTAAACTTT
```

Figure 3I

```
4920                        4940                                              4960
TTACAAGTTA   AGACATGTAT   AAATATATGA   CAATATAATT   ACAAGTTTTA   GTTCAATGTT

4980          5000*                                   5020
AGCTATCTTA   GTATGTTATT   GATGATCTTA   ATTACATTTA   AACAAATTCC   ACTTAAAATT

5040                                    5060                                   5080
TTAATAAATA   ATAACAAATA   ATTATTGTAA   TATAATACAT   TAAATGCAAC   AAAAAATGAA

5100*                      5120                                               5140
ATAAATAAAA   TAAAAATAGCA  AATAATTGTT   ATAAATATTGT  AATATAATAT   GTACCATATT

5160          5180                       5200*
CTTAACTGAA   ATAGGGTCTA   ACCTATAATC   CCTAAAATTT   CAGTTTAAAT   ATTTTTATAC

5220                       5240                                               5260
CTGCCATATT   ATTAGAACTC   TTTTTAAATA   TATTAAAATT   TTAATTATAC   CAATTTAATT

5280          5300*                      5320
TAAACTATTA   ATTATCTTAA   CTAAAATCTA   AAATTTTATT   TAACCTATTA   ATTAAATTCC

5340                       5360                                              5380
TAATTATCTT   ATCTAATTTA   AAACTCTAAT   TATCCTAAT    TGATTTAAAT   TCTTGATTAT

5400*                     5420                                                5440
CTTAATTTGT   AACCTCCTCC   ACCCAGCTAG   ATGCTGGACC   CGAATCCGGG   AGATTACATC
```

Figur 3J

08/984 099

```
              5480                        5500
                                           *
GGCATTGAGA TGGCCTAGTA GTGATCAGGG TTTTCTAGAG GTACCCAATT CGCCCTATAG

 5460

TGAGTCGT
```

Figur   3K

```
AAAAAACA ATG AGC ACT GCA AGA TTT ATC AAG TGT GTC ACG GTC GGT GAT    50
         Met Ser Thr Ala Arg Phe Ile Lys Cys Val Thr Val Gly Asp
         1                   5                   10

GGA GCT GTG GGG AAA ACT TGT ATG CTC ATT TCA TAT ACC AGC AAT ACT    98
Gly Ala Val Gly Lys Thr Cys Met Leu Ile Ser Tyr Thr Ser Asn Thr
15              20                  25                  30

TTC CCA ACG GAT TAT GTT CCA ACA GTA TTT GAT AAC TTT AGT GCC AAT    146
Phe Pro Thr Asp Tyr Val Pro Thr Val Phe Asp Asn Phe Ser Ala Asn
        35                  40                  45

GTG GTG GTG GAT GGC AGC ACA GTG AAC CTT GGC CTA TGG GAC ACT GCC    194
Val Val Val Asp Gly Ser Thr Val Asn Leu Gly Leu Trp Asp Thr Ala
50                  55                  60

GGG CAA GAA GAT TAT AAT AGG CTA AGA CCA CTG AGT TAT AGA GGA GCT    242
Gly Gln Glu Asp Tyr Asn Arg Leu Arg Pro Leu Ser Tyr Arg Gly Ala
65                  70                  75

GAT GTG TTT TTG TTG GCC TTT TCT CTT ATA AGC AAG GCC AGT TAT GAA    290
Asp Val Phe Leu Leu Ala Phe Ser Leu Ile Ser Lys Ala Ser Tyr Glu
            80                  85                  90

AAC ATC TAC AAA AAG TGG ATC CCA GAG CTA AGA CAT TAT GCT CAT AAT    338
Asn Ile Tyr Lys Lys Trp Ile Pro Glu Leu Arg His Tyr Ala His Asn
Asn             95                  100                 105     110

GTA CCA GTT GTG CTT GGA ACC AAA CTA GAT TTG CGA GAT GAC AAG        386
Val Pro Val Val Leu Gly Thr Lys Leu Asp Leu Arg Asp Asp Lys
            115                 120                 125

CAG TTC CTC ATT GAT CAC CCT GGA GCA ACA CCA ATA TCA ACA TCT CAG    434
Gln Phe Leu Ile Asp His Pro Gly Ala Thr Pro Ile Ser Thr Ser Gln
            130                 135                 140
```

FIGURE 4A

08/994,099

GGA GAA GAA CTA AAG AAG ATG ATA GGA GCA GTT ACT TAT ATA GAA TGC   482
Gly Glu Glu Leu Lys Lys Met Ile Gly Ala Val Thr Tyr Ile Glu Cys
                    150   155

AGC TCC AAA ACC CAA CAG AAT GTG AAG GCT GTT TTC GAT GCT GCA ATA   530
Ser Ser Lys Thr Gln Gln Asn Val Lys Ala Val Phe Asp Ala Ala Ile
                    160   165   170

AAA GTA GCT TTG AGG CCA CCA AAA CCA AAG AGA AAG CCT TGC AAA AGG   578
Lys Val Ala Leu Arg Pro Pro Lys Pro Lys Arg Lys Pro Cys Lys Arg
                    175   180   185   190

AGA ACA TGT GCT TTC CTT TGAATATTGG ATCATTATTA CAGTCAAAAA   626
Arg Thr Cys Ala Phe Leu
                    195

CAGTTAACAA AAGCTGTTGC AGATAAAACAC TGAATCTGCT ATAGTTTGTT TTTGGTTTAC 686

ATATGTTCCA CGTGAAACTA TGAAGCATCT CTAAGAAAAC CCAAACTATC ATATCAACCC   746

ATCGATCAAT GAATCGATTT CAATTTTCGC AGTATAAGTT CCTTTTAATC CTTTCTTTTT   806

ACTTCATTTT ATAACGAATT CTATGGATAA TGTTCCCTAC AAACATGTCA TTACAATGTT   866

TAATTATAAA TTCCATTCTT CTATTTTACT AAAAAAAAAA AAAA   910

FIGURE 4B

08/984 099

```
                    20          40          60
TTGGATGAGA  ACCAATTTTT  AATAGTAAAN  CCTAACCAAT  TTTTAATAAT  AAAGCTGACT

            80         100         120
                        *
CCTAGTACAA  GAGCTTTTAT  TCATTCTTCT  ATTTGCTTTT  CCTCTAGGCT  TGGCAATCGA

           140         160         180
GAATTTTCTT  GTGTTACAAT  ATAATAAATA  CATCGTAGAA  ATAAATTTTA  TTCAAATTGA

           200         220         240
            *
AGTCTTAACC  ATCTTTAATA  TTTGTAGATG  TAATTTAAAT  GAAAGATAAA  TACATATTCT

           260         280         300
                                    *
TGGACATGTA  TTTTCATCTT  AATGTTTGTG  GCTTTGGTGA  TAGGTGTATT  GATGTACGAT

           320         340         360
GTCTTTTAAA  TCACACATCA  CATTTTGAGT  TTGTATGATG  ATAAGTCGAC  ATAANCGAAA

           380         400         420
                        *
TATGGGTGTGA TCTTCACTTT  TGAACTTTGA  TAAGTCACCA  AACTTTAACA  AAGTTTGATT

           440         460         480
GTGTACATAT  ATATATATAT  CTTCAAATTT  TATAATAAAA  ATTGTGTTTA  AATAATTTAC

           500         520         540
            *
AGTTATATTA  TTTTTTTATC  TCTAATTTTA  TTTGTCGCCA  AATTTTTAGT  TGATATTTTA

           560         580         600
                                    *
ACATAAAAAA  AATTGTACAC  ATTTACAAGC  CCATATACAA  ATAATTATAT  AAATATTCAT
```

FIGURE 5A

```
                    620                640                660
TAAAAAATAT ATTTAAATAT AGGATATAAA TATAACTATT TTAGAATTAT TCTACTTTAA

                    680                700                720
                                        *
GATAACATAG GTTAAATGTA TAATTAATAA GGTTAGTTTA TTGTAAAGAT GAGTATATAT

                    740                760                780
GTCGTAAACA TAATCACTAA CCATTTTTAT TAACTTCTTG GTTTTGAAGT TCCAAAAAGA

                    800                820                840
                     *
AAATGGAAGG GAAATTTGAG AGTAAGTTCA TGTTTATATT ATACATAATG AAGTTGATGT

                    860                880                900
                                                           *
TTTCTTCTTT TTAATATTTT TATACAAAAT ATTTAAATAA AATAATTAAG GATTGAATGA

                    920                940                960
AAAATATAAT GAAAGTCGTT TTACTAATAG TCATATTGCA TTTTGTCGCA TCTACTTAAA

                    980                1000               1020
                                        *
TAATAGATAA ATTAATTGTG GTACATTAGA TCAAAGAACA AACTAGATTT TGTCCCATTC

                    1040               1060               1080
TATTGTTAAA AGCTGGTCCG TTTACATTAA AATAAGGTAC ATGTTACATG CCACGTATAA

                    1100               1120               1140
                     *
CTATCTGGTT ATTCTATCAA TCACGCTAAT TTTTAACAGT AGAAATGAAT GTAATTTTTA

                    1160               1180               1200
                                                           *
AATAGAAAGG GTCAAATTGT TATTTGATCT AACACGTAGG GATTAATTTA CTTATTTTCC
```

FIGURE 5B

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```
                1220       1240       1260
TAAAGAAATA AGTAAAATAT AATTTGAATC TTAATACAAA AACTTTCATG ATACTTTTAT

                1280       1300*      1320
CATATTTTAC TTATAATTTA ATATTGTGAG AGTAACAAAR TTAAAAAACA TAGAAACACC

                1340       1360       1380
AAAAGTTAGT TATGGTGTGA CTCATATACA CAGTTAAAAT TTGAATAAAT TTTTTTCTTC

                1400*      1420       1440
GTCATTAATT CCATCATGGG TTTTTTTTTT TCTAGTTAAG CCATAATTAT CAAAATAATC

                1460       1480       1500*
ATCATTAATC CTATCAATAC CCCGCCCTGC CTCCCTCCCT CAATACTTAA ACCCAACTAA

                1520       1540       1560
CACCCAGCAC CAAACGCACT TTAATAGCCA CCTATTTCTA GCCATGTCCT TGCACTTAAA

                1580       1600*      1620
GAAAAGTAAA GCTAACCTGC AATCATTCCA TATCGAGGCC TCAACAGATA AAGTTGGTTG

                1640       1660       1680
ATGGGTTTGC ACCAAGTTGT TAAAACCCGG CCCTCAACTT CCCTTTTCTT TTCATCCTCC

                1700*      1720       1740
CCACTCCACA CCCTCCAATT TTCTTCATAT GGTTCTATTA TAAGTTCTTT ATAATCACAG

                1760       1780       1800*
AATCAAGATA AGTCCTCAGC AAACAAAAAA CCATGGCTCT CGAGCAAGAT CTGGACTAGT
```

FIGURE 5C

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```
                    1820       1840       1860
CAGAGCTCTG AATATTGGAT CATTATTACA GTCAAAACA GTTAACAAAA GCTGTTGCAG

                    1880       1900       1920
                                 *
ATAAACACTG AATCTGCTAT AGTTTGTTTT TGGTTTACAT ATGTTCCACG TGAAACTATG

                    1940       1960       1980
AAGCATCTCT AAGAAAACCC AAACTATCAT ATCAACCCAT CGATCAATGA ATCGATTTCA

                    2000       2020       2040
                     *
ATTTTCGCAG TATAAGTTCC TTTTAATCCT TTCTTTTTAC TTCATTTTAT AACGAATTCT

                    2060       2080       2100
                                            *
ATGGATAAATG TTCCCTACAA ACATGTCATT ACAATGTTTA ATTATAAATT CCATTCTTCT

                    2120       2140       2160
ATTTTACTAA GATATTAGTA ACTTCAAACT GCTGATTTTT ACTAATTTAT TATTTATAAA

                    2180       2200       2220
                                 *
TTGTTAGAAT GATTATTTTT CAATAATTTA ACAACAATAT TTAATATATT TATTATTATT

                    2240       2260       2280
ATTTCTCAAT TTTTATTAAA CAAAAACATA AATTTTTGAC AAATTAAAAT AAATGAATTA

                    2300       2320       2340
                     *
ATTTCTCAAT TTTCGTGCA ACTATTACAA AAATCCTTCA TAGTCCTAAT CTTAATTTGA

                    2360       2380       2400
                                            *
TGCAGAGGTG ATAATAATCT TAATTTGATG CAGAGGTAAT AATGGGCCGG GTTTGAGCTG
```
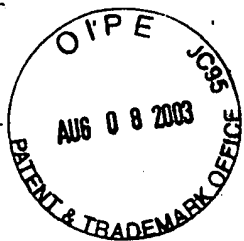
FIGURE 5D

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```
                    2420                2440                2460
GACTTAAGCA  TGATATTGAC  GTACTTTATA  TTTTTCCAAA  TTCAACCCAG  CTCGAAATAT

                    2480                2500*               2520
GAGTCTAAAA  TTTTGTCCAA  TTTAATCCAA  GCCCATTTTA  AGTTCGTCCA  TATTATTTTT

                    2540                2560                2580
TAATTTAAAA  AATTTATATC  ATTTTTATTT  AATATTTAAT  TATTTTATAT  ATTTTTTATT

                    2600*               2620                2640
TATTGAAAAT  TTTTATATAG  TCATCTTAAC  ATTATGTTAA  TGTTTATATT  AGAGTAGTAT

                    2660                2680                2700*
TATATATATT  TAGTATAGGT  TTATTTTGTT  AATAAACTTA  AAAATGGGTC  TTGTGGGCTA

                    2720                2740                2760
GACTTGGACC  TTAAATGCTC  AAACTCAAAC  TTAATTCATA  TTTTAAACAG  GCTTAATATT

                    2780                2800*               2820
TTTATTTACA  CTGTTTCAAA  TTTTTCGGGT  GAAATATCTT  CGAGTCTAGA  TTAATAACAC

                    2840                2860                2880
CACAGGTCTA  ATTTGATGCT  CAATGAAAAT  GAAATCATAT  TGAGCTTAAT  TAATATTCCA

                    2900*               2920                2940
TTCTTCTTTG  CTGAAAGGAC  CAAGCAATTC  GAGTTACATT  AAGGTTAAAG  AGTATGGGAT

                    2960                2980                3000*
CCGCCAAACC  TGCCCCAATG  TCTCTTCAAC  CATCCAAAAA  CTTGAGTCAG  TATCACATAC
```

FIGURE 5E

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3040
3020
ATGTACCGNT ATTTATTTAT TTATTGAAAT TGGCATTATT TCTTG

FIGURE 5F

GGGCATTCCA CACGACCATG TGTCCCCTAT TTCCAGGCAT TTTGAGACTT CACCTAAACT 60

TCTAGAGTTG TTTCAAATTA GCCCCTATTT GTTCTTAAAT CATTTTAGGA TCTTGTAAAC 120

TCGTATTTAG GACTAAATGT GTAATTTATA CTTTAATTAT GATTGATTAA TTGATTGATT 180

TNGTAGTAAT GCCCGTGACC CTAATCCGTT AGCGAAGAGG GGTTAGGGGT TAGGGGTTTT 240

ATTATTATTT TTTAGATATT GTATAACTCT TGTTTTATTT TTAATTTTGT TACTATTTCA 300

AAGGCATTTG TTTGTAGTGT TATTCCGAGT AGGTTTTATG GGTGAACAAC CCTTGACCGC 360

CAAATCAATC ACAAGAGTTC AACATTTTAT TTATTTTGAA ATGTATTAAA AATCGTTAAT 420

CTATATATTC GCCCCATTAT TGGGATTAAA TATTCACAAG GGTTTAGACC GTCATGAGAC 480

AGATTAGTTT TATCTTACTG ATGGTCACAT CACAATAGTA ATTCAACTTA ATACGAGAGG 540

AACCATTGAT TCACGCAATT GGTCATCGCA CTTAGTTGAA AAGCTAGGGG TGCGAAGCTA 600

CCGTACGCTG GATTATGATT GAACACCTCT AAGTCAGAAT CCGAATTAGA AACAATGCAC 660

GTGTCCGTTG CCTGATTGCC AACCCCAATA ACACGTGTTG TAGGTTTAAC CATGTTTATG 720

AAAGATAAGG TTTTTTTTTT TATAAGCAAG CAACTATAGG GGTTTACTTC CGTGCGCAAA 780

TTTTTAGGTT ACCTATTTTG GGAGGGGGGA TTATGATTCA AGTGAAAGAA AGTTGGCACA 840

CACACAATCA GTACATCTGT TTTGACAGAG ACACAGCCTA AAAACAGCCA CAAACAAGCC 900

TAAAGGAATC ACCCAAAAAC AACAACCAAA AGTACAGAGG AAAACAAAAG AATCCCTGTT 960

ACCACCAAGC TGAAAAAAAG AAAATAAAAC TCAACTTTTG GCAATAAAAA CCCTCCTACC 1020

CTCAACCCCT AACCACGCAA CAATCAGCAA TACTCCAAGC AACCATTTTC CTTACAAGTT 1080

FIGURE 7A

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TGTTTTCTT GTGATTAATC CAT ATG GCT AGC TCC ATG TCC CTT AAG CTT GCA 1133
                          Met Ala Ser Ser Met Ser Leu Lys Leu Ala>

TGT CTG CTA GTG TTG TGC ATG GTG GTG GGT GCA CCC CTG GCT CAA GGG 1181
Cys Leu Leu Val Leu Cys Met Val Val Gly Ala Pro Leu Ala Gln Gly>

GAC GTA ACC CGT GCT GAT GGC GTA GTC ACC CTT CCA CGC TGC CTT CCT 1229
Asp Val Thr Arg Ala Asp Gly Val Val Thr Leu Pro Arg Cys Leu Pro>

TTA TTG ATA GGG AAT GGT AAT GGT GCT GAT GTT GAT GCC CCA 1277
Leu Leu Ile Gly Asn Gly Asn Gly Ala Asp Val Asp Ala Pro>

GCT TGC GAC ATC GTC AGG GGT CTC TTG AGC TCG CTG CTC TGT GGT 1325
Ala Cys Asp Ile Val Arg Gly Leu Leu Ser Ser Leu Leu Cys Gly>

GGT GTT TAGGAACCG ATCTAGCTTG AAATCGGGTT CGGATACGGG TGGAGTTTCA 1380
Gly Val>

AATTGGTGTG TTATGGAATC CCAACTTAAT CGTGTTTAGG GGTGGGATCC AATTGTGTGA 1440

TACATTACAG AGCATGGTTG TGGATTGTTT TCTCATATGT TTTGATTGAC TTGCTTGATA 1500

CATTGGATGA TTCGATAAGG TGACCGGTTT ACCTGGGTAT CCAACCATCA TCCGATTACT 1560

TTTAATAAT TATTGTTTC TTCTTTATGT TGTCTGTCTT TTTGTTTCTT GATCTATAAC 1620

ATTATATTTG CCCAAATTTT CGCATTTTCC ATATGTAGCT TATATATGTA TATATATATT 1680

CAATAAAGTA TATTGATTTA GCAGATGATT TGTGTATATA TTTAAATCAA ATCAAACATT 1740

AATGATCATT CACTACGCGTC TTAATCTTGA AAAATTCATC AACGGTTATC CTTTGCAGCA 1800

TATATAAAAA AAATTGCCAA CCCTATGCTT TTACACCTAA TTCAAGGGAT AACATAAGTC 1860

GATTAAAACG A 1871

FIGURE 7B

Coker 130	Yxy,Y	Yxy,x	Yxy,y	Lab,L	Lab,a	Lab,b	LCh,L	LCh,C	LCh,h
1	80.35	.3206	0.3266	91.84	0.16	5.51	91.84	5.51	88.4
2	77.62	.3232	0.3282	90.6	0.66	6.45	90.6	6.48	84.2
3	80.98	.3197	0.3257	92.12	0.13	5.04	92.12	5.04	88.6
4	80.16	.3200	0.3255	91.75	0.35	5.00	91.75	5.01	86.1
5	77.03	.3220	0.3271	90.33	0.61	5.84	90.33	5.87	84.1
6	73.67	.3258	0.3293	88.76	1.35	7.14	88.76	7.26	79.4
7	82.43	.3178	0.3237	92.76	0.15	4.05	92.76	4.05	87.9
8	82.21	.3196	0.3255	92.66	0.19	4.99	92.66	4.99	87.9
9	81.19	.3194	0.3241	92.21	0.77	4.42	92.21	4.48	80.2
10	76.11	.3243	0.329	89.9	0.74	6.89	89.9	6.92	84
11	82.28	.3178	0.3236	92.69	0.19	4.00	92.69	4.00	87.3
TOTAL	874.03	3.5302	3.5883	1005.62	5.30	59.33	1005.62	59.61	938.10
MEAN	79.46	.3209	.3262	91.42	0.48	5.39	91.42	5.42	85.28
S.D.	2.91	.0026	.0020	1.33	0.38	1.08	1.33	1.11	3.22
RANGE	82.43-73.67	.3858-.3178	0.3293-.3236	92.76-88.76	1.35-.13	7.14-4.00	92.76-88.76	7.26-4.00	88.6-79.4
AVER DEV.	2.44	.0021	.0017	1.11	0.31	0.88	1.11	0.90	2.64

Coker 130	Hunter L	Hunter a	Hunter B
1	89.63	0.15	5.42
2	88.10	0.66	6.27
3	89.98	0.13	4.98
4	89.53	0.36	4.94
5	87.76	0.61	5.69
6	85.83	1.35	6.85
7	90.79	0.15	4.03
8	90.67	0.19	4.95
9	90.10	0.78	4.38
10	87.23	0.75	6.65
11	90.70	0.19	3.98
TOTAL	980.32	5.32	58.14
MEAN	89.12	0.48	5.29
S.D.	1.65	0.39	0.99
RANGE	90.79-85.83	1.35-.13	6.85-3.98
AVER DEV.	1.37	0.31	0.81

FIGURE 9

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5148	Yxy, Y	Yxy, x	Yxy, y	Lab, L	Lab,a	Lab,b	LCh, L	LCh,C	LCh, h
68-1	60.76	0.34	0.35	82.24	2.32	15.11	82.24	15.28	81.3
68-1	61.89	0.34	0.34	82.82	1.97	14.31	82.85	14.44	82.2
50-2-1	78.39	0.3324	0.3375	90.95	0.68	11.29	90.95	11.31	86.6
50-2-1									
(lint fiber)	21.49	.3155	0.3489	53.48	-8.01	7.97	53.48	11.29	135.2

5148	Hunter L	Hunter a	Hunter B
68-1	77.94	2.25	13.35
68-1	78.67	1.92	12.75
50-2-1	88.53	0.69	10.71
50-2-1			
(lint fiber)	46.35	-6.35	6.06

FIGURE 10

5149	Yxy,Y	Yxy,x	Yxy,y	Lab,L	Lab,a	Lab,b	LCh,L	LCh,C	LCh,h
68-1	65.75	0.3351	0.34	84.86	0.72	11.9	84.86	11.92	86.6
68-1	62.54	.3458	0.3474	83.19	2.14	15.84	83.19	15.98	82.4
68-1	62.56	0.3458	0.3474	83.2	2.14	15.85	83.2	15.99	82.4
8-1	84.72	.3196	0.3278	93.76	0.89	5.87	93.76	5.93	98.6
68-1	64.97	.3316	0.3354	84.46	1.17	9.81	84.46	9.87	83.3
17-2	64.42	.3423	0.3436	84.18	2.26	14.19	84.18	14.36	81
17-3	60.97	.3475	0.3475	82.36	2.74	16.03	82.36	16.26	80.4
17-15-1	64.02	.3433	0.3444	83.97	2.34	14.57	83.97	14.75	80.9
21-1	59.32	0.3443	0.3445	81.46	2.64	14.41	81.46	14.64	79.7
21-3	63.64	0.34	0.3409	83.77	2.4	12.89	83.77	13.11	79.5
21-6	67.12	0.3372	0.3394	85.56	1.88	12.15	85.56	12.29	81.3
50-3-1	61.26	0.3502	0.3511	82.51	2.4	17.63	82.51	17.79	82.3
67-1	64.34	0.3434	0.3442	84.13	2.48	14.58	84.13	14.78	80.4
68-1	64.12	0.3442	0.3447	84.02	2.58	14.85	84.02	15.07	80.2
68-2	70.21	0.3428	0.3447	87.09	2.05	15.04	87.09	15.17	82.3
68-3	63.81	0.3457	0.3468	83.86	2.35	15.76	83.86	15.93	81.6

5149	Hunter L	Hunter a	Hunter B
68-1	81.08	0.71	10.89
68-1	79.08	2.08	14
68-1	79.09	2.09	14.02
8-1	92.04	0.91	5.81
68-1	80.6	1.15	9.06
17-2	80.25	2.21	12.75
17-3	78.08	2.68	14.09
17-15-1	80.01	2.29	13.05
21-1	77.01	2.56	12.73
21-3	79.77	2.35	11.65
21-6	81.92	1.86	11.14
50-3-1	78.26	2.33	15.36
67-1	80.2	2.43	13.07
68-1	80.07	2.53	13.28
68-2	83.79	2.04	13.68
68-3	79.87	2.3	14

FIGURE 11

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5616	Yxy,Y	Yxy,x	Yxy,y	Lab,L	Lab,a	Lab,b	LCh,L	LCh,C	LCh,h
11-1	72.26	0.3215	0.3254	88.09	1.1	5.06	88.09	5.17	77.8
11-2	58.69	0.3284	0.3335	81.12	0.6	8.36	81.12	8.38	85.9
11-2	52.78	0.3358	0.3335	77.74	3.55	9.22	77.74	9.87	69
11-1	72.03	0.3312	0.3338	87.98	1.72	9.52	87.98	9.67	79.8
11-1	72.34	0.3295	0.332	88.13	1.79	8.64	88.13	8.82	78.4
11-1	71.98	0.3295	0.3313	87.95	2.09	8.39	87.95	8.64	76.1
11-1	73.01	0.3256	0.3305	88.45	0.68	7.51	88.45	7.54	84.9
17-1-2	75.85	0.3274	0.3306	89.78	1.52	7.94	89.78	8.08	79.3
17-3-1	72.6	0.3271	0.3303	88.25	1.48	7.66	88.25	7.8	79.1
17-4-1	69.02	0.3352	0.3377	86.51	1.78	11.37	86.51	11.5	81.2
25-11-1	69.5	0.3364	0.3401	86.75	1.26	12.41	86.75	12.47	84.2
25-28-1	72.21	0.3324	0.3343	88.06	2.09	9.9	88.06	10.11	78.2
25-36-2	70.46	0.3327	0.3353	87.22	1.73	10.22	87.22	10.36	80.5
35-35-1	75.59	0.3268	0.3299	89.66	1.56	7.58	89.66	7.73	78.4
50-12-1	73.13	0.3284	0.3316	88.5	1.46	8.36	88.5	8.48	80.1
KS-11-2	65.33	0.3371	0.3388	84.65	2.07	11.83	84.65	12	80.1

5616	Hunter L	Hunter a	Hunter B
11-1	85	1.09	4.89
11-2	76.61	0.58	7.64
11-2	72.64	3.38	8.22
11-1	84.87	1.72	8.97
11-1	85.05	1.79	8.2
11-1	84.84	2.08	7.96
11-1	85.44	0.67	7.18
17-1-2	87.08	1.52	7.62
17-3-1	85.2	1.48	7.31
17-4-1	83.07	1.76	10.52
25-11-1	83.36	1.25	11.43
25-28-1	84.97	2.08	9.32
25-36-2	83.94	1.72	9.56
35-35-1	86.94	1.57	7.29
50-12-1	85.51	1.46	7.96
KS-11-2	80.82	2.04	10.81

FIGURE 12

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BC	Yxy,Y	Yxy,x	Yxy,y	Lab,L	Lab,a	Lab,b	LCh,L	LCh,C	LCh,h
12 Green	33.34	0.3779	0.3717	66.01	4.24	24.18	66.01	24.54	80.1
22 Brown	38.18	0.3778	0.3662	68.15	6.18	23.31	68.15	24.11	75.2
3 Red	24.23	0.4055	0.3728	56.31	10.96	25.52	56.31	27.77	66.9
4 Ivory	46.84	0.3657	0.3599	74.08	4.6	21.13	74.08	21.62	77.8

BC	Hunter L	Hunter a	Hunter B
12 Green	59.44	3.79	17.92
22 Brown	61.78	5.62	17.69
3 Red	49.22	9.42	17.14
4 Ivory	68.43	4.31	17.02

FIGURE 13